nu-flex

Flexible Paving Solutions

CASE STUDY:
Controlling Land Water Run Off

Project: The Valley Of Stone

Construction of porous, flexible surfacing bridleway in the face of severe land water run-off

Client: Lancashire County Council
Procurement: Open Tender
Location: Bacup, Lancashire
Date Undertaken: 2017

PROJECT OUTLINE:

This project required the construction of a shared usage bridleway using our 'nu-flex' recycled, porous surfacing process including the provision of all associated civils work. Our engineering team developed a specific design solution to deal with the unique issues on this site.

This section of a much larger project focused on an area that was susceptible to extreme levels of land water run-off from an adjacent road and moorlands. Our design included extensive excavation and the installation of a new drainage system.

In completing this project our talented technical and operational teams excelled in providing the client with an outstanding finished product.

Nu-phalt contracting successfully construct a shared usage bridleway whilst dealing with extreme land water run-off.
The transformation has been remarkable to the delight of residents and user groups.

PROJECT CHALLENGES:

Environmental – Management against the spread of invasive plant species. Working in extreme conditions.

Ecological – The bridleway was known to be a home for bats, nesting birds, amphibians and other animals. Our staff worked in co-ordination with the client's ecologist.

Engineering – Severe flooding from moorlands and compounded by adjacent water courses. Required specific engineering design solutions to ensure the route remains operational in extreme weather conditions.

Operational – Challenging environmental and topographical constraints considered and appropriate solutions agreed and implemented.
Access was restricted and operations could only be fed from one end at a time.

The Client:
'Britannia Greenway has for many years been largely unusable and several attempts to repair it have failed due to the water management not being addressed properly. Nuphalt took on this challenge and were able to design and implement a number of solutions which would appear to have solved this problem. Over this past winter the route has been subjected to heavy rain and significant amounts of snow melt, all of which Nuphalt's drainage solutions have coped with. It looks like a route we used to have to go back and repair every couple of years won't need our attention again for the next 20+ years.' *Tony Lund, Senior Environmental Project Officer*

PROJECT OUTCOMES:
The finished project has attracted large numbers of positive comments from professional engineers to many user groups including; SusTrans, visiting clients, British Horse Society, ramblers, cyclists and other general users.

BENEFITS:
The asset manager and end-users alike have welcomed a number of benefits including;

- Well drained surface due to the porosity of the material
- Easy to repair
- Visually attractive compared to traditional surfacing
- Significant reduction in the effects of ice and snow
- Surface is excellent for horse riders and cyclists
- Innovative recycled material

Duration on site – 5 weeks
Environmental benefits – 10,476 recycled tyres used

Contact us

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